



310

310

802 / 902

310

310

802/902

100/102

100/104

Surgical Instrument

Surgical tool handle

Processing and isolation electronics

Electro-mechanical transducer attached to surgical tool

Connection upon type of transducer

Speaker or headphone

—
五
二

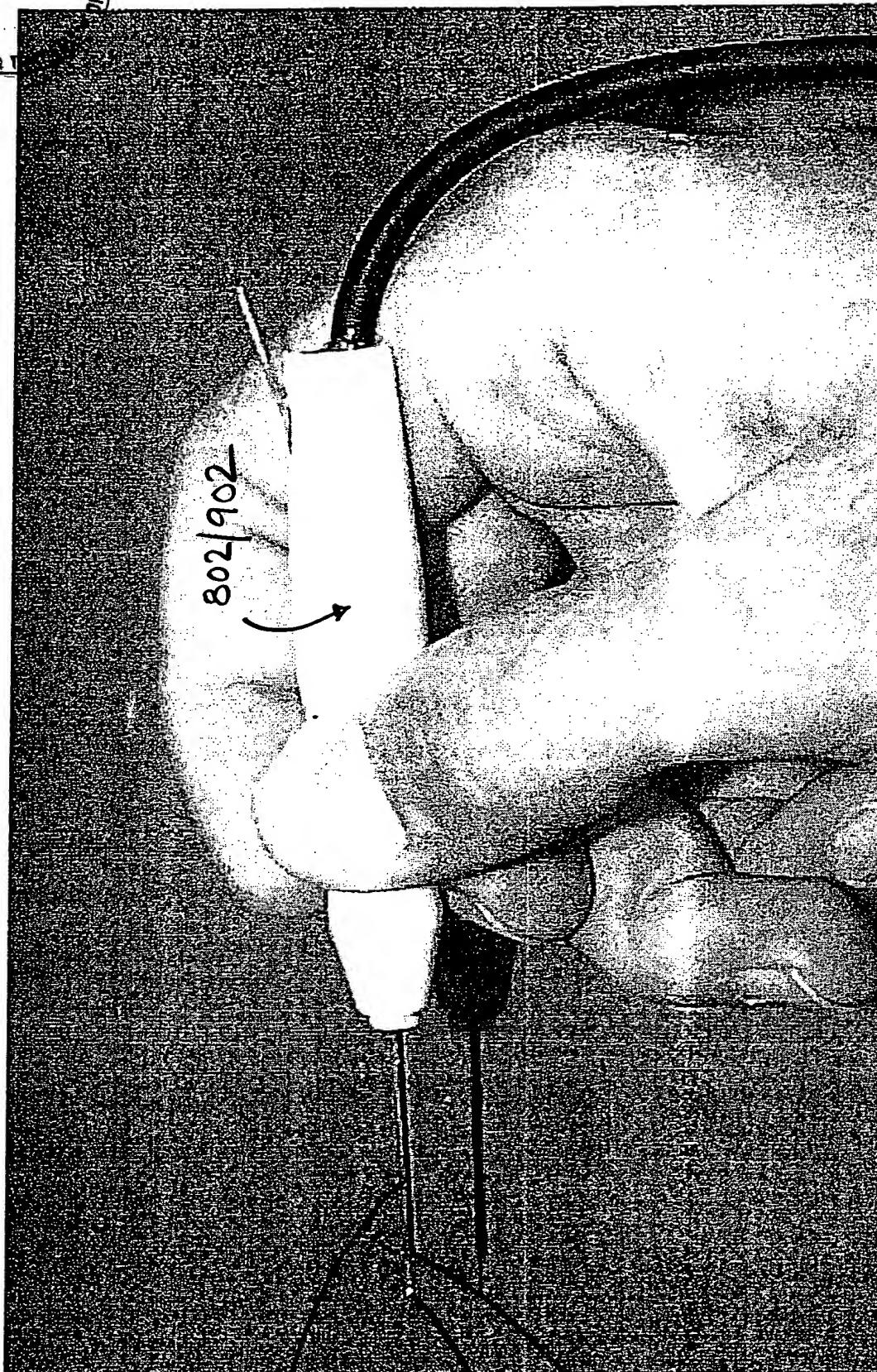


FIG 2

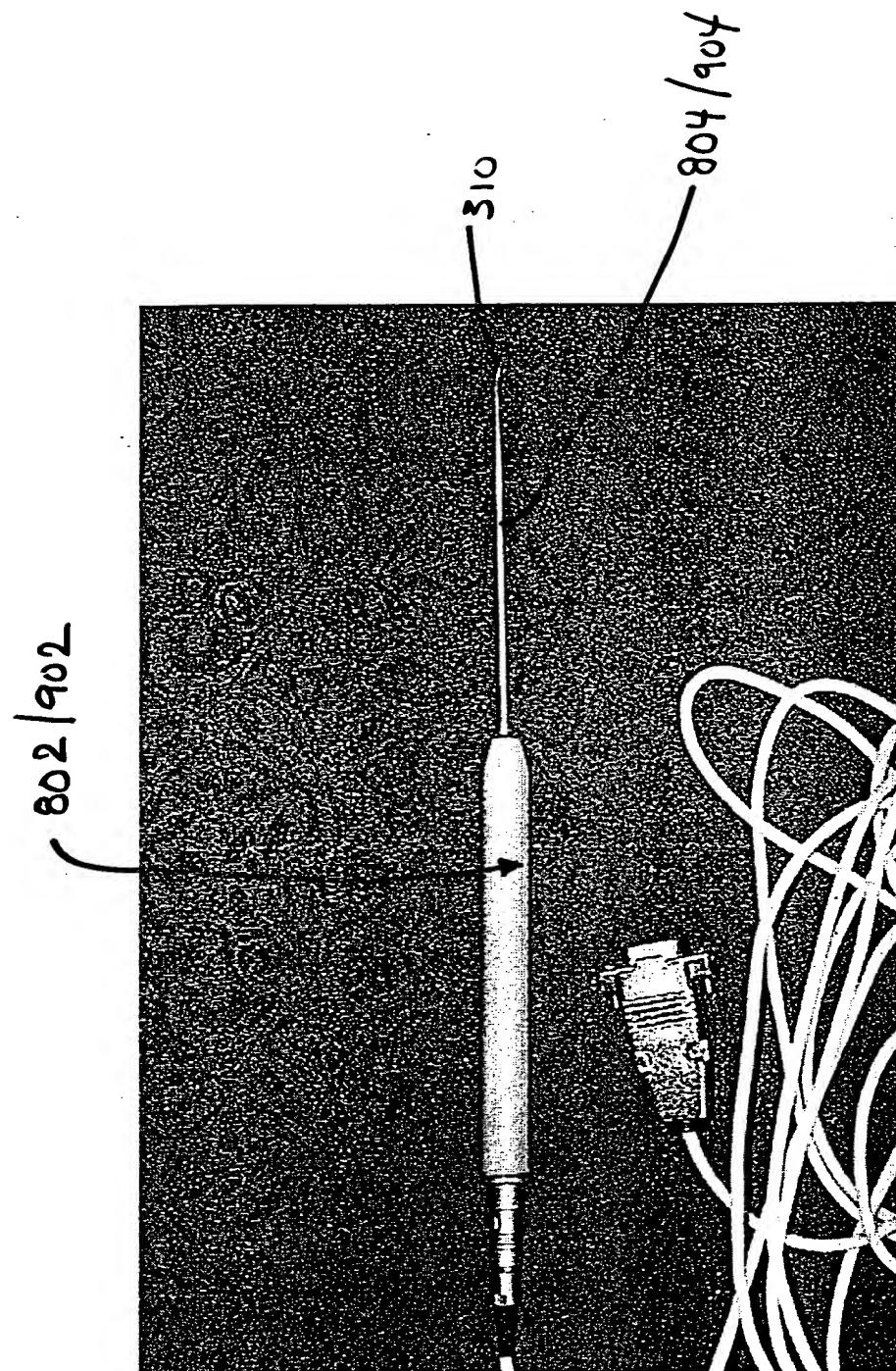


FIG. 7

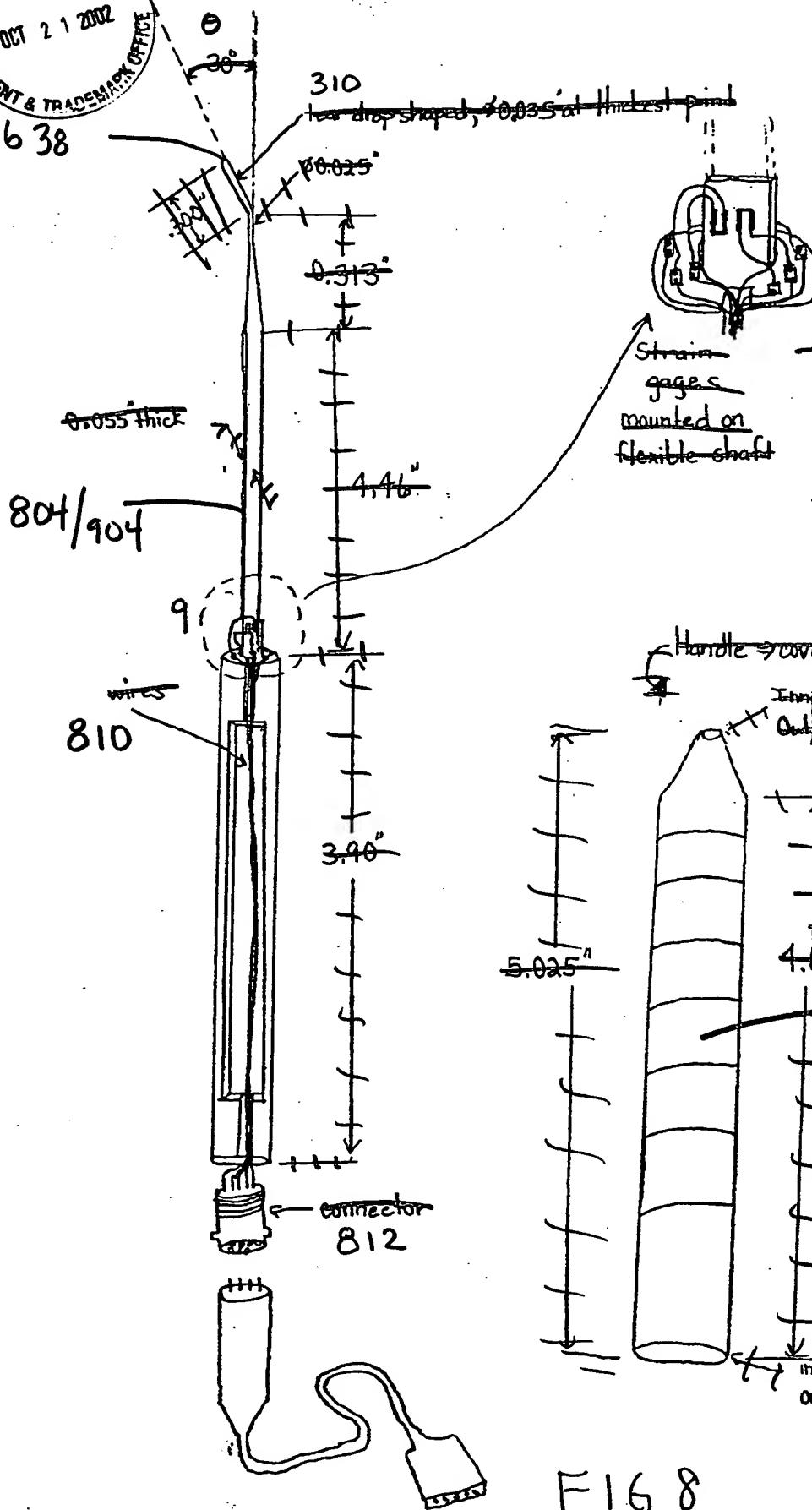


FIG 9

Strain gages are mounted 2 on each side of the shaft (4 total, full- bridge configuration) and then soldered onto solder tabs. Wires run down the center of the shaft to the end, where they are wired to a connector.

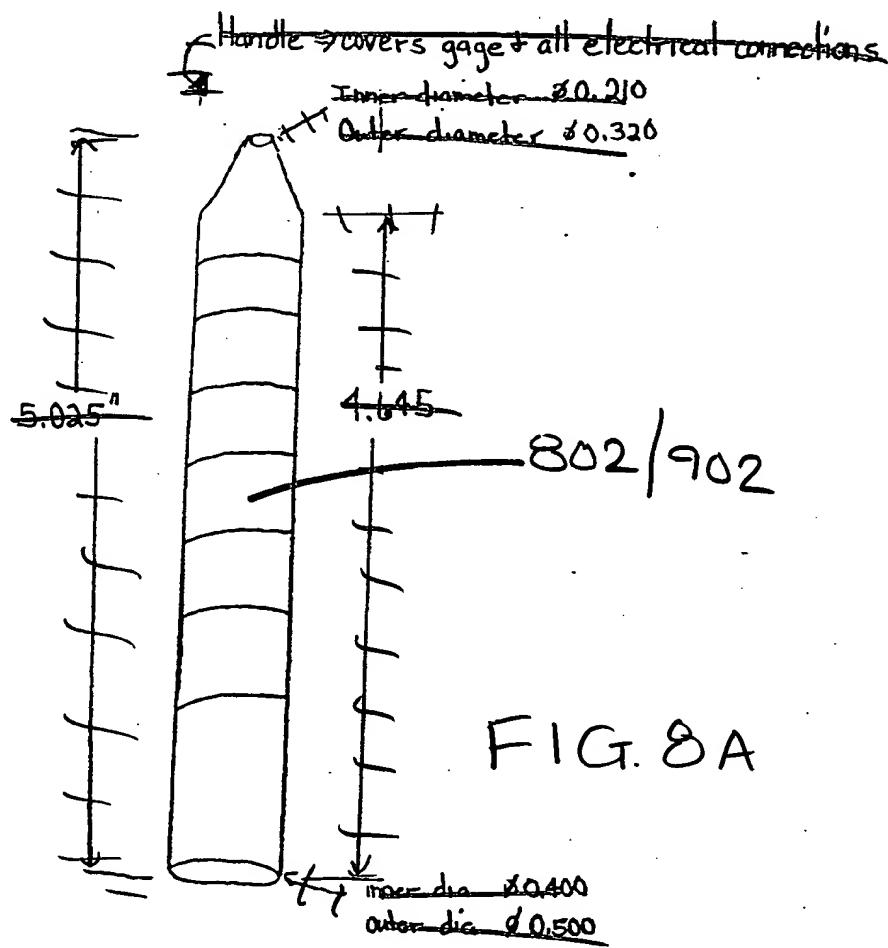


FIG. 8A

FIG 8

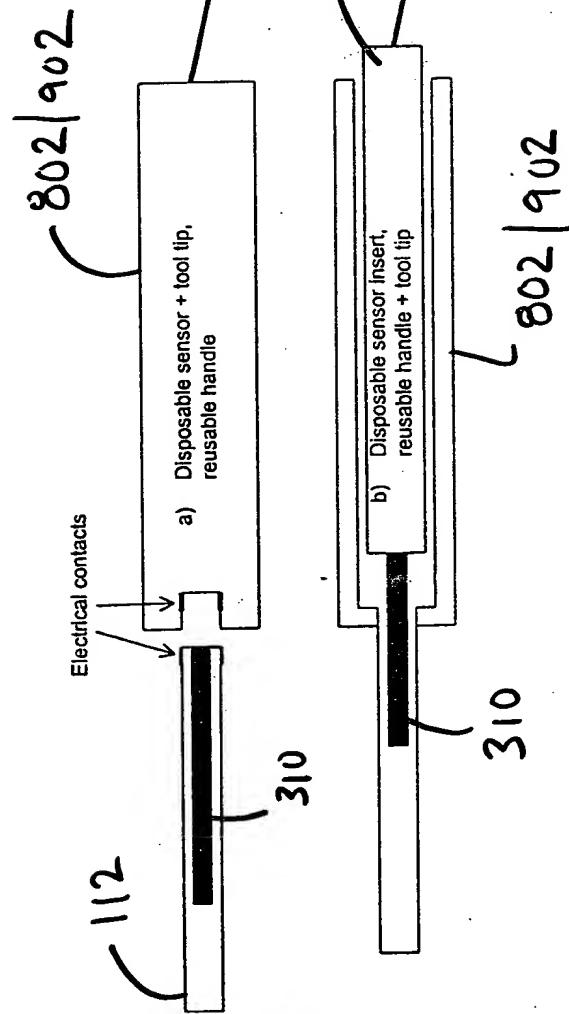
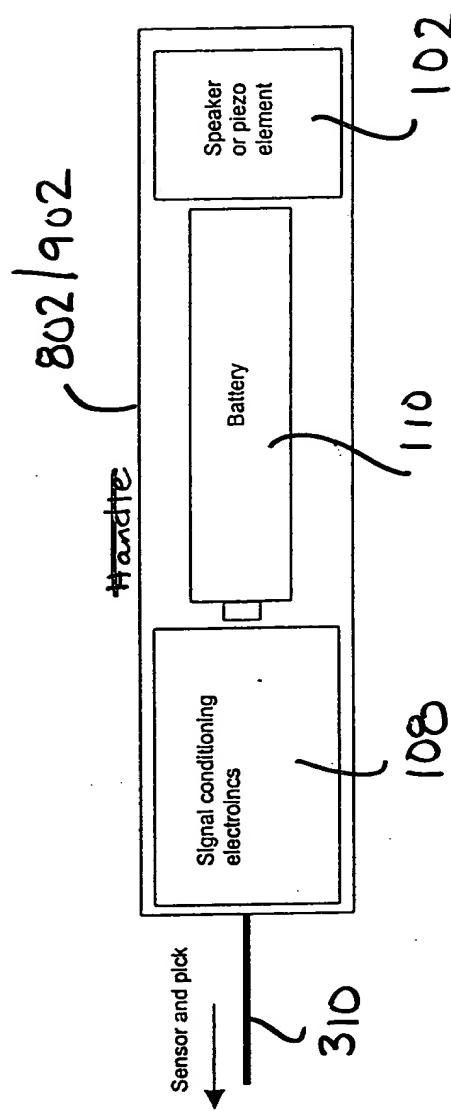
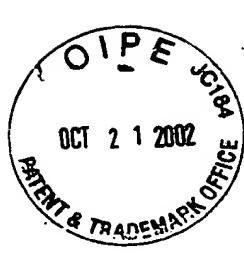
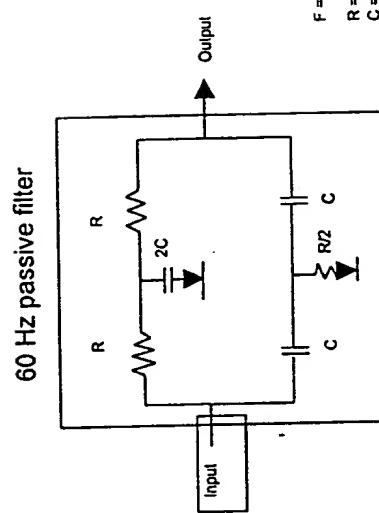
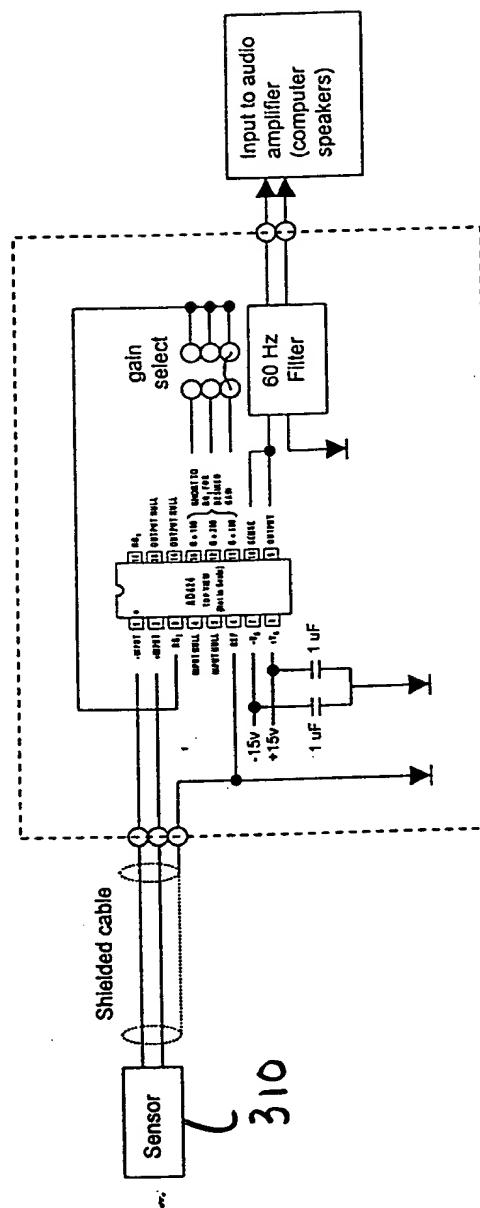




FIG. 12



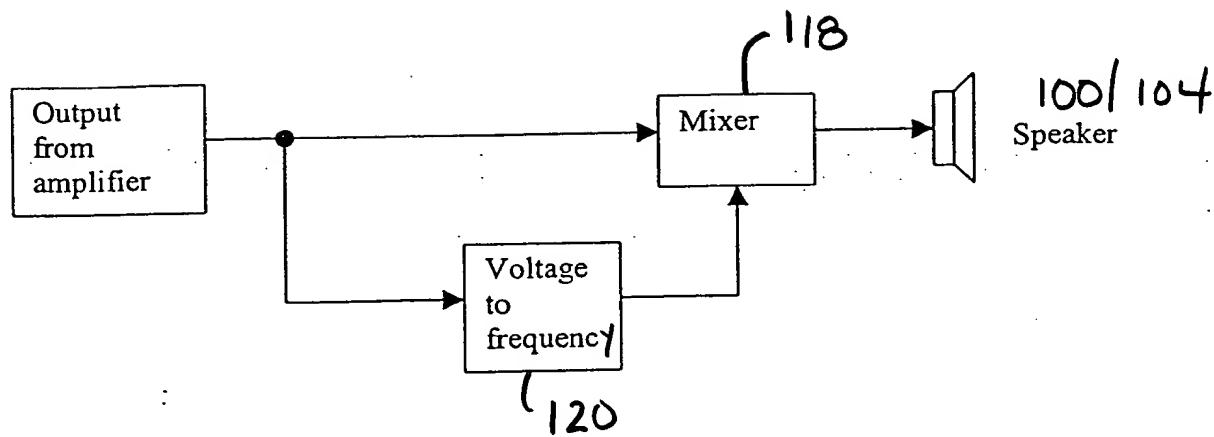
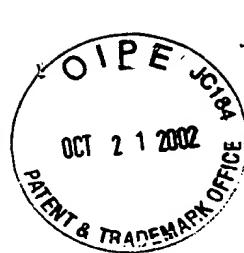


FIG. 13

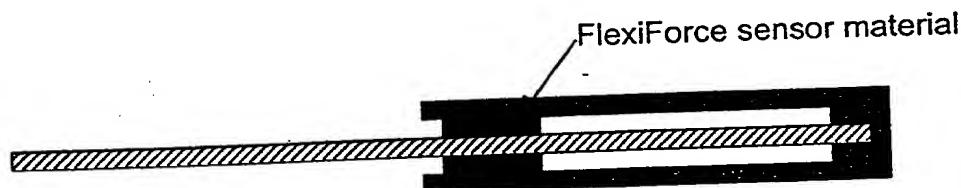


FIG. 14